UNITED STATES DEPARTMENT OF COMMERS United States Patent and Trademark O Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

EXAMINER

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/31/2004

KESHAVAN, BELUR V

James R Duzan Trask Britt P.O. Box 2550

Salt Lake City, UT 84110

ART UNIT

PAPER NUMBER

2825

DATE MAILED: 03/31/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/649 160	08/28/2000	Ed A. Schrock	3084 5115(96-1050 5)	6838

TITLE OF INVENTION: METHOD AND APPARATUS FOR EPOXY LOC DIE ATTACHMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$30	\$0	\$30	06/30/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any				hould be completed where correspondence address as arate "FEE ADDRESS" for
7590 03/31/2004	corrections or use Block 1)	Note: A ce Fee(s) Trai papers. Eachave its ow	ertificate of mailing can only be used for nsmittal. This certificate cannot be used the additional paper, such as an assignment or certificate of mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
James R Duzan Trask Britt P.O. Box 2550 Salt Lake City, UT 84110		I hereby co States Post addressed	Certificate of Mailing or Transertify that this Fee(s) Transmittal is bein all Service with sufficient postage for fir to the Mail Stop ISSUE FEE address to the USPTO, on the date indicated bel	g deposited with the United st class mail in an envelope above, or being facsimile
•				(Depositor's name)
				(Signature)
				(Date)
APPLICATION NO. FILING DATE	FIRST NAME	D INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/649,160 08/28/2000	Ed A. S	Schrock	3084.5US(96-1050.5)	6838
TITLE OF INVENTION: METHOD AND APPARATUS FOR				
APPLN. TYPE SMALL ENTITY	ISSUE FEE	PUBLICATION		DATE DUE
nonprovisional NO	\$30	\$0	\$30	06/30/2004
EXAMINER	ART UNIT	CLASS-SUBC	LASS	
KESHAVAN, BELUR V	2825	438-1110	00	
1. Change of correspondence address or indication of "Fee AddreCFR 1.363). □ Change of correspondence address (or Change of Correspo Address form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Conumber is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRIN PLEASE NOTE: Unless an assignee is identified below, no been previously submitted to the USPTO or is being submitted (A) NAME OF ASSIGNEE	names of agents Ol firm (have agent) an attorneys will be pr TED ON THE PATEN assignee data will apped under separate cover. (B) RESIDENG	Yup to 3 registere R, alternatively, (2) ing as a member a d the names of up or agents. If no na inted. T (print or type) ar on the patent. In Completion of this CE: (CITY and STA	the name of a single registered attorney or to 2 registered patent tame is listed, no name 3 clusion of assignee data is only appropri form is NOT a substitute for filing an assITE OR COUNTRY)	
Please check the appropriate assignee category or categories (wi			vidual	roup entity
4a. The following fee(s) are enclosed: ☐ Issue Fee	4b. Payment of □ A check i	ree(s): in the amount of the	fee(s) is enclosed	
□ Publication Fee			PTO-2038 is attached.	
☐ Advance Order - # of Copies	The Dire	ector is hereby auth	orized by charge the required fee(s), or (enclose an extra	credit any overpayment, to
Director for Patents is requested to apply the Issue Fee and Publi			· · · · · · · · · · · · · · · · · · ·	
(Authorized Signature)	Date)			
NOTE; The Issue Fee and Publication Fee (if required) will other than the applicant; a registered attorney or agent; or interest as shown by the records of the United States Patent and	the assignee or other produced the control of the c	party in		
This collection of information is required by 37 CFR 1.311. obtain or retain a benefit by the public which is to file (and application. Confidentiality is governed by 35 U.S.C. 122 and estimated to take 12 minutes to complete, including gathering completed application form to the USPTO. Time will vary case. Any comments on the amount of time you require suggestions for reducing this burden, should be sent to the C Patent and Trademark Office, U.S. Department of Con 22313-1450. DO NOT SEND FEES OR COMPLETED TO: Commissioner for Patents, Alexandria, Virginia 22 Under the Paperwork Reduction Act of 1995, no persons collection of information unless it displays a valid OMB control		l l		



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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/649,160	08/28/2000		Ed A. Schrock	3084.5US(96-1050.5)	6838
75	590	03/31/2004		EXAM	NER
James R Duzan				KESHAVAN, BELUR V	
Trask Britt P.O. Box 2550				ART UNIT	PAPER NUMBER
Salt Lake City, UT	84110			2825	<u> </u>
				DATE MAILED: 03/31/2004	L

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 269 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 269 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	11/4
	09/649.160	SCHROCK, ED. A.	
Notice of Allowability	Examiner	is application. If not included attion will be mailed in due coect to withdrawal from issue of the withdrawal from its deficient.	
	Belur V Keshavan	2825	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in B5) or other appropriate commu RIGHTS. This application is su	this application. If not included nication will be mailed in due of	d ourse. THIS
1. This communication is responsive to 18 February 2004.			
2. ☑ The allowed claim(s) is/are <u>1 and 3-8</u> .			
3. \boxtimes The drawings filed on <u>28 August 2000</u> are accepted by t	he Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents had compared to the priority documents had compared to the priority documents had compared to the certified copies of the priority of the priority of the certified copies of the priority of the priorit	ave been received. ave been received in Application	n No	on from the
Applicant has THREE MONTHS FROM THE "MAILING DATI noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be suit	NMENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which g			
6. CORRECTED DRAWINGS (as "replacement sheets") m			
(a) ☐ including changes required by the Notice of Draftspo	•	(PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examina Paper No./Mail Date		in the Office action of	
Identifying indicia such as the application number (see 37 CFF each sheet, Replacement sheet(s) should be labeled as such in			back) of
 DEPOSIT OF and/or INFORMATION about the department of the department of			ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SI Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposi of Biological Material	B) 6. ☐ Interview Su Paper No./N B/08), 7. ☐ Examiner's A	ormal Patent Application (PTO mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allov	·

Application/Control Number: 09/649,160

Art Unit: 2825

DETAILED ACTION

Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action of October 8, 2003 is persuasive and, therefore, the finality of that action is withdrawn.

116 amendment to claims faxed on February 2004 is noted and entered.

Allowable Subject Matter

Claims 1 and 3-8 are allowed.

Examiner's Statement Of Reasons For Allowance

The following is an examiner's statement of reasons for allowance: The primary reason for the allowance of claims 1 and 3-8 is the inclusion therein, in combination as currently claimed, of the limitation of a method of attaching a semiconductor die to a lead frame. The limitation found in claims 1 and 3-8 comprises inter alia the following limitations: Applying snap curable adhesive to a portion of a lead frame; and pressing an active surface of a pre heated semiconductor die heated to the curing temperature of the adhesive against the snap curable adhesive on the lead frame thereby deforming the layer of the adhesive on the lead frame. The limitation found in claims 1 and 3-8 is neither taught nor disclosed by prior art of record alone or in combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/649,160

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Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Belur V Keshavan whose telephone number is 571-272-1894.

The examiner can normally be reached on 8-4:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew S Smith can be reached on 571-272-1907. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Belur V. Keshavan.

Examiner. Art Unit 2825.

Page 3

MATTHEW SMIT SUDERVISORY PATENT TECHNOLOGY CENT....

MATTHEW SMITH
BUPERMISORY PATENT EXAMINER
TECHNOLOGY CENTER 2000